



# INSTRUMENT APPROACH PROCEDURE CHARTS IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

## Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned another DP or radar vector by ATC, this procedure may be flown to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: FAR 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

### NAME TAKE-OFF MINIMUMS

#### AKRON, NY

AKRON

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 300-1.

#### ALBANY, NY

ALBANY INTL

TAKE-OFF MINIMUMS: **Rwy 10**, 300-1 or std. with a min. climb of 260' per NM to 600. **Rwy 28**, 300-1 or std. with a min. climb of 280' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn to 1800' heading 010° before proceeding on course.

**Rwy 28**, climb to 800' before proceeding on course.

NOTE: **Rwy 10**, 72' AGL trees 400' from departure end of runway, 500' right of centerline. **Rwy 28**, 90' AGL trees 1300' from departure end of runway 550' left of centerline.

#### ALBION, NY

PINE HILL

TAKE-OFF MINIMUMS: **Rwy 10**, 300-1.

DEPARTURE PROCEDURE: **Rwy 10**, climb runway heading to 1000 before proceeding on course.

### NAME TAKE-OFF MINIMUMS

#### ANDOVER, NJ

AEROFLEX-ANDOVER

TAKE-OFF MINIMUMS: **Rwy 3**, 500-2 or std. with a min. climb of 310' per NM to 900. **Rwy 21**, 600-2 or std. with a min. climb of 256' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 1200 before proceeding on course.

**Rwy 21**, climb runway heading to 1400 before proceeding on course.

NOTE: **Rwy 3**, trees 4800' from departure end of runway, 1050' left of centerline, 100' AGL/803' MSL.

**Rwy 21**, trees 715' from departure end of runway, 164' right of centerline, 84' AGL/667' MSL.

#### ATLANTIC CITY, NJ

ATLANTIC CITY MUNI-BADER FIELD

TAKE-OFF MINIMUMS: **Rwys 4, 11, 29**, 500-1.

**Rwy 22**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, fly runway heading. **Rwy 11**, turn left heading 040°. **Rwy 29**, turn left heading 260°.

#### BELMAR-FARMINGDALE, NJ

MONMOUTH EXECUTIVE

TAKE-OFF MINIMUMS: **Rwys 3, 21**, 300-1.



# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

## BERLIN, NJ

### CAMDEN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 600-1½ or std. with a min. climb of 270' per NM to 600.

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb to 600 before turning on course.

## BLAIRSTOWN, NJ

### BLAIRSTOWN

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 400-2 or std. with a min. climb of 260' per NM to 800'.

DEPARTURE PROCEDURE: Eastbound Departure: **Rwy 7**, climb runway heading to 800' then continue climb to 3000 direct STW VOR/DME before departing as cleared. **Rwy 25**, climb runway heading to 800' then continue climbing left turn to 3000 via STW R-250 to STW VOR/DME before departing as cleared.

Westbound Departure: **Rwy 7**, climb runway heading to 800' then continue climbing right turn to 3000 or above via heading 200°, to intercept STW R-243 to the FJC R-087 direct to FJC VORTAC before departing as cleared. **Rwy 25**, climb runway heading to 800, then continue climbing left turn to 3000 or above via heading 200°, to intercept STW R-243 to the FJC R-087 direct to FJC VORTAC before departing as cleared.

## BUFFALO, NY

### BUFFALO AIRFIELD

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 300-1.

### BUFFALO NIAGRA INTL

TAKE-OFF MINIMUMS: **Rwys 14, 32**, 300-1.

## CALDWELL, NJ

### ESSEX COUNTY

TAKE-OFF MINIMUMS: **Rwys 4, 22, 27**, 300-1.

**Rwy 9**, 900-1.

DEPARTURE PROCEDURE: **Rwys 4, 22, 27**, climb runway heading to 600 before departing as cleared.

## CANANDAIGUA, NY

### CANANDAIGUA

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 230' per NM to 1100.

## CORTLAND, NY

### CORTLAND COUNTY-CHASE FIELD

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 220' per NM to 2000. **Rwy 24**, 400-2 or std. with a min. climb of 330' per NM to 1700.

DEPARTURE PROCEDURE: **Rwys 6, 24**, climb runway heading to 2600 before turning southbound.

## CROSS KEYS, NJ

### CROSS KEYS

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

## DANSVILLE, NY

### DANSVILLE MUNI

TAKE-OFF MINIMUMS: **Rwys 14, 18**, 1600-2.

**Rwy 32**, 800-1. **Rwy 36**, 1700-2.

DEPARTURE PROCEDURE: **Rwy 32**, climb on heading 335° to 2000 before proceeding on course.

## DUNKIRK, NY

### CHAUTAUQUA COUNTY/ DUNKIRK

TAKE-OFF MINIMUMS: **Rwy 15**, 400-2 or std. with a min. climb of 230' per NM to 1200.

DEPARTURE PROCEDURE: **Rwys 6, 15**, climb runway heading to 1200, then climbing left turn direct DKK VORTAC before proceeding on course. **Rwys 24, 33**, climb runway heading to 1200, then climbing right turn direct DKK VORTAC before proceeding on course. Southbound aircraft cross DKK VORTAC at or above 2300.

## EAST HAMPTON, NY

### EAST HAMPTON

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1.

NOTE: **Rwy 4**, 40' AGL trees 200' from departure end of runway. **Rwy 22**, 42' AGL trees 120' from departure end of runway. **Rwy 16**, 48' AGL trees 130' right of departure end of runway.

## ELLENVILLE, NY

### JOSEPH Y RESNICK

TAKE-OFF MINIMUMS: **Rwy 4**, 1000-2. **Rwy 22**, 1600-2 or std. with a min. climb of 450' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 4**, climb runway heading to 5000 before proceeding on course.

**Rwy 22**, climb on heading 240° to 4000 before proceeding on course.



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## ELMIRA, NY

## ELMIRA/CORNING REGIONAL

TAKE-OFF MINIMUMS: **Rwy 6**, 500-2½ or std. with a min. climb of 277' per NM to 4000. **Rwy 10**, std. with a min. climb of 449' per NM to 1600, or 2000-3 for climb in visual conditions. **Rwy 24**, std. with a min. climb of 398' per NM to 2300, or 2000-3 for climb in visual conditions. **Rwy 28**, std. with a min. climb of 594' per NM to 1900, or 2000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 6**, climb via heading 062° to 2200, then to 4000 direct ALP NDB before proceeding on course. **Rwy 10**, climb via heading 101° to 1600, then climbing left turn to 4000 direct ALP NDB before proceeding on course; or climb in visual conditions to cross departure end of runway eastbound at or above 2800 before proceeding on course. **Rwy 24**, climb via heading 242° to 2300, then climbing right turn to 4000 direct ULW VOR/DME before proceeding on course; or climb in visual conditions to cross departure end of runway westbound at or above 2800 before proceeding on course.

NOTE: **Rwy 6**, multiple trees beginning 907' from departure end of runway, both sides of centerline, up to 60' AGL/1449' MSL, obstruction light pole 2.12 NM from departure end of runway, 2274' left of centerline, 40' AGL/1340' MSL. **Rwy 24**, tree 2593' from departure end of runway, 933' left of centerline, 60' AGL/1008' MSL. **Rwy 10**, multiple trees beginning 887' from departure end of runway, both sides of centerline, up to 60' AGL/1013' MSL, tree 1.20 NM from departure end of runway, 2290' right of centerline, 60' AGL/1399' MSL, pole 1352' from departure end of runway 415' left of centerline, 44' AGL/984' MSL, towers 1.6 NM from departure end of runway, 1637' right of centerline, 278' AGL/1238' MSL. **Rwy 28**, multiple trees beginning 1183' from departure end of runway, 374' right of centerline, up to 60' AGL/1612' MSL, tower 1225' from departure end of runway, 474' right of centerline, 92' AGL/1032' MSL, tower 1274' from departure end of runway, 411' left of centerline, 81' AGL/1016' MSL.

## ENDICOTT, NY

## TRI-CITIES

TAKE-OFF MINIMUMS: **Rwy 3**, 700-2. **Rwy 21**, 1100-2. DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 1700, then climbing left turn direct CFB VORTAC until passing 2500 before proceeding on course. **Rwy 21**, climb runway heading to 1900, then climbing right turn direct CFB VORTAC until passing 2700 before proceeding on course.

NOTE: **Rwy 3**, trees and terrain 646' above runway 1.5 NM from departure end of runway, 3000' left of centerline. **Rwy 21**, trees and terrain 735' above runway 1.4 NM from departure end of runway, 2625' left of centerline. Trees and terrain 1035' above runway 2.9 NM from departure end of runway, 5950' left of centerline.

## FARMINGDALE, NY

## REPUBLIC

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 280' per NM to 300. **Rwy 14**, 300-1 or std. with a min. climb of 220' per NM to 300.

DEPARTURE PROCEDURE: **Rwys 1, 32**, climb runway heading to 800 before proceeding on course.

NOTE: **Rwy 19**, 102' sign at departure end of runway, 510' right of centerline.

## FISHERS ISLAND, NY

## ELIZABETH FIELD

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 or std. with a min. climb of 300' per NM to 300.

NOTE: **Rwy 7**, 15' AGL bunker 25' from departure end of runway, right of centerline.

## FULTON, NY

## OSWEGO COUNTY

TAKE-OFF MINIMUMS: **Rwy 6**, 300-1 or std. with a min. climb gradient of 270' per NM to 900.

NOTE: **Rwy 6**, hill 1400' from departure end of runway, on centerline 50' AGL/549' MSL. **Rwy 15**, trees 1700' from departure end of runway, on centerline 85' AGL/560' MSL. **Rwy 24**, trees 1350' from departure end of runway, on centerline 60' AGL/517' MSL. **Rwy 33**, road 400' from departure end of runway, on centerline 15' AGL/462' MSL.

## GLENS FALLS, NY

## FLOYD BENNETT MEMORIAL

TAKE-OFF MINIMUMS: **Rwys 1, 12, 19, 30, 300-1**.

DEPARTURE PROCEDURE: **Rwys 1, 12, 30**, climbing right turn to 2000 direct GANSE LOM before proceeding on course. **Rwy 19**, Climb to 2000 direct GANSE LOM before proceeding on course.

## HAMILTON, NY

## HAMILTON MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, 500-2 or std. with a min. climb of 400' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 35**, climb runway heading to 1900 before proceeding on course.

## HORNELL, NY

## HORNELL MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, 1200-2 or std. with a min. climb of 320' per NM until passing 2500.

**Rwy 36**, 900-2.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 3000 before proceeding on course.

**Rwy 36**, climb runway heading to 2500 before proceeding on course.

NOTE: **Rwy 36**, 400' AGL tree/terrain, 1750' from departure end of runway, 300' right of centerline.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

**ISLIP, NY**

LONG ISLAND MACARTHUR

TAKE-OFF MINIMUMS: **Rwy 33R**, 300-1 or std. with a min. climb of 220' per NM to 400.**ITHACA, NY**

ITHACA TOMPKINS REGIONAL

TAKE-OFF MINIMUMS: **Rwy 14**, 1100-1 or std. with a min. climb of 370' per NM to 2200.DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn to 2500 via ITH VOR/DME R-200 before proceeding on course.**JAMESTOWN, NY**

CHAUTAUQUA COUNTY/JAMESTOWN

NOTE: **Rwy 7**, cross departure end of runway at or above 13' AGL/1732' MSL. **Rwy 13**, water tank 1000' from departure end of runway, 767' right of centerline, 100' AGL/1842' MSL. Cross departure end of runway at or above 35' AGL/1742' MSL. **Rwy 25**, cross departure end of runway at or above 19' AGL/1740' MSL. **Rwy 31**, trees 940' from departure end of runway, 583' right of centerline, 60' AGL/1796' MSL. Cross departure end of runway at or above 35' AGL/1759' MSL.**JOHNSTOWN, NY**

FULTON COUNTY

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.NOTE: **Rwy 10**, 50' AGL trees 720' from departure end of runway, 65' left of centerline. **Rwy 28**, 60' AGL trees 700' from departure end of runway, 125' left of centerline.**KINGSTON, NY**

KINGSTON-ULSTER

TAKE-OFF MINIMUMS: **Rwy 33**, 300-1.DEPARTURE PROCEDURE: **Rwy 15**, climb to 3000 via PWLR-316 to TRESA INT before proceeding on course. **Rwy 33**, climbing right turn to 3000 on heading 170° and PWLR-316 to TRESA INT before proceeding on course.**LAKE PLACID, NY**

LAKE PLACID

TAKE-OFF MINIMUMS: **Rwy 14**, NA-obstacles.**Rwy 32**, std. with a min. climb of 420' per NM to 4000.DEPARTURE PROCEDURE: **Rwy 32**, climbing left turn to 5000 via heading 304° to intercept SLK R-180 to SLK VOR/DME before proceeding on course.**LAKEWOOD, NJ**

LAKEWOOD

TAKE-OFF MINIMUMS: **Rwy 6, 24**, 400-2 or std. with a min. climb of 330' per NM to 600.**LINCOLN PARK, NJ**

LINCOLN PARK

TAKE-OFF MINIMUMS: **Rwy 1**, 900-2. **Rwy 19**, 300-1.DEPARTURE PROCEDURE: **Rwy 1**, climb visually over airport to 1000 before proceeding on course. **Rwy 19**, climb runway heading to 1000 before proceeding on course.**LINDEN, NJ**

LINDEN

TAKE-OFF MINIMUMS: **Rwy 27**, 300-1.**LOCKPORT, NY**

NORTH BUFFALO SUBURBAN

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.NOTE: **Rwy 10**, 46' AGL tree 353' from departure end of runway, 75' right of centerline. **Rwy 28**, 60' AGL tree 650' from departure end of runway, 350' right of centerline.**LUMBERTON, NJ**

FLYING W

TAKE-OFF MINIMUMS: **Rwys 1, 19**, 300-1.**MALONE, NY**

MALONE-DUFORT

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 220' per NM to 1100. **Rwy 23**, 500-1 or std. with a min. climb of 240' per NM to 1400.DEPARTURE PROCEDURE: **Rwys 5, 14, 23, 32**, aircraft departing V-282 northbound and V-98 northeastbound climb via heading 050° to 2500 before proceeding on course. All other directions climb to 2000 via heading 300° before proceeding on course.**MANVILLE, NJ**

CENTRAL JERSEY REGIONAL

DEPARTURE PROCEDURE: **Rwy 7**, climb runway heading to 1300 before turning on course.**MASSENA, NY**

MASSENA INTL-RICHARDS FIELD

TAKE-OFF MINIMUMS: **Rwys 5, 27**, 300-1.**Rwy 9**, 300-1 or std. with a min. climb of 260' per NM to 500. **Rwy 23**, 300-1 or std. with a min. climb of 230' per NM to 800.**MIDDLETOWN, NY**

RANDALL

TAKE-OFF MINIMUMS: **Rwy 26**, 700-2 or std. with a min. climb of 260' per NM to 2400.DEPARTURE PROCEDURE: **Rwy 26**, climb runway heading to 2400 before proceeding on course.**MILLBROOK, NY**

SKY ACRES

TAKE-OFF MINIMUMS: **Rwy 17**, 900-1 or std. with a min. climb of 390' per NM to 1700. **Rwy 35**, 300-1 or std. with a min. climb of 250' per NM to 1300.DEPARTURE PROCEDURE: **Rwy 17**, climb runway heading to 1700, then climbing right turn to intercept IGN R-147, to IGN VOR/DME. Cross IGN VOR/DME at or above 3000. **Rwy 35**, climb runway heading to 1300, then climbing left turn to intercept IGN R-009 to IGN VOR/DME. Cross IGN VOR/DME at or above 3000.



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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



## MILLVILLE, NJ

MILLVILLE MUNI

TAKE-OFF MINIMUMS: **Rwys 10, 14, 28, 32**, 300-1.

## MONTAUK, NY

MONTAUK

DEPARTURE PROCEDURE: **Rwy 24**, climbing right turn to 3000 direct TMU VOR before proceeding on course.NOTES: **Rwy 6**, 37' dune 200' from departure end of runway. **Rwy 24**, 35' power line 40' from departure end of runway.

## MONTGOMERY, NY

ORANGE COUNTY

TAKE-OFF MINIMUMS: **Rwy 3**, 500-2 or std. with a min. climb of 440' per NM to 900. **Rwy 8**, 300-1 or std. with a min. climb of 230' per NM to 600. **Rwy 21**, 500-1 or std. with a min. climb of 210' per NM to 800. **Rwy 26**, 400-1 or std. with a min. climb of 270' per NM to 900.DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 2100 before proceeding on course.**Rwys 8, 21, 26**, climb runway heading to 1000 before proceeding on course.

## MONTICELLO, NY

MONTICELLO

TAKE-OFF MINIMUMS: **Rwy 1**, 400-2 or std. with a min. climb of 220' per NM to 2100. **Rwy 33**, 300-1 or std. with a min. climb of 280' per NM to 1900.NOTE: **Rwy 1**, 1649' power line/tower 3200' from departure end of runway, 200' right of centerline.**Rwy 33**, 1785' power line/tower 6000' from departure end of runway, 1200' right of centerline.

## SULLIVAN COUNTY INTL

DEPARTURE PROCEDURE: **Rwy 33**, climb straight ahead to 2500 before departing on course.

## MORRISTOWN, NJ

MORRISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 23**, 400-2 or std. with a min. climb of 365' per NM to 700. **Rwy 31**, 500-2 or std. with a min. climb of 390' per NM to 900.DEPARTURE PROCEDURE: **Rwy 13, 23, 31**, use MORRISTOWN DEPARTURE.NOTE: **Rwy 5**, cross departure end of runway at or above 25' AGL/209' MSL. **Rwy 13**, 73' AGL tree, 1100' from departure end of runway, 600' right of centerline. Cross departure end of runway at or above 35' AGL/217' MSL. **Rwy 23**, 60' AGL tree, 500' from departure end of runway, 400' right of centerline. Cross departure end of runway at or above 35' AGL/218' MSL. **Rwy 31**, 50' AGL trees, 1500' from departure end of runway, 700' right of centerline. Cross departure end of runway at or above 35' AGL/222' MSL.

## NEW YORK, NY

JOHN F. KENNEDY INTL

TAKE-OFF MINIMUMS: **Rwy 13R**, 300-1½ or std. with a min. climb of 220' per NM to 300. **Rwy 31L**, standard with a min. climb of 210' per NM to 2000.NOTE: **Rwy 4L**, trees 1824' from departure end of runway, 180' right of centerline, 63' AGL/79' MSL. Trees 1847' from departure end of runway, 88' left of centerline, 54' AGL/67' MSL. Multiple obstruction lights on fences from 249' to 262' from departure end of runway, left of centerline, 10' AGL/22' MSL. **Rwy 4R**, multiple trees from 797' to 1960' from departure end of runway, left of centerline, 39' AGL/52' MSL to 63' AGL/76' MSL. Multiple trees 497' to 523' from departure end of runway, right of centerline, 21' AGL/32' MSL to 20' AGL/33' MSL. **Rwy 13L**, electrical equipment 106' from departure end of runway, 416' left of centerline, 10' AGL/17' MSL. Obstruction light 1045' from departure end of runway, 141' left of centerline, 27' AGL/40' MSL. **Rwy 13R**, tank, 6823' from departure end of runway, 2116' right of centerline, 215' AGL/227' MSL. Obstruction light 361' from departure end of runway, 405' left of centerline, 32' AGL/45' MSL. Obstruction light on fence 98' from departure end of runway, 6' left of centerline, 10' AGL/24' MSL. Tower 4689' from departure end of runway, 1386' right of centerline, 127' AGL/140' MSL. **Rwy 31L**, tree 2075' from departure end of runway, 435' left of centerline, 79' AGL/91' MSL. Bush 256' from departure end of runway, 529' left of centerline, 13' AGL/25' MSL. Terrain 460' left of departure end of runway, 0' AGL/15' MSL. **Rwy 31R**, trees from 560' to 751' from departure end of runway, left of centerline, 30' AGL/43' MSL to 39' AGL/52' MSL. Multiple light poles from 1441' to 1641' from departure end of runway, left of centerline from 43' AGL/66' MSL to 44' AGL/67' MSL. Road 281' from departure end of runway, 500' left of centerline, 0' AGL/26' MSL. Obstruction light poles from 365' to 545' from departure end of runway, left of centerline from 14' AGL/27' MSL to 17' AGL/30' MSL. Obstruction lights on poles and fence from 409' to 713' from departure end of runway, right of centerline from 10' AGL/23' MSL to 28' AGL/31' MSL. Approach light 189' from departure end of runway, 8' left of centerline, 5' AGL/18' MSL.

## LA GUARDIA

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1 or std. with a min. climb of 230' per NM to 500. **Rwy 13**, 400-1 or std. with a min. climb of 390' per NM to 500.DEPARTURE PROCEDURE: **Rwy 4**, climb to 600 before proceeding westbound. **Rwy 13**, climb to 800 before proceeding westbound. **Rwy 22**, climb to 1400 before proceeding westbound. **Rwy 31**, climb to 1200 before proceeding southbound.NOTE: **Rwy 4**, bridge 12,735' from departure end of runway, 3753' right of centerline, 345' AGL/384' MSL. **Rwy 13**, building 8430' from departure end of runway, 12' right of centerline, 176' AGL/206' MSL. Stack 4935' from departure end of runway, 1496' left of centerline, 172' AGL/182' MSL. Buildings 11,429' from departure end of runway, 733' right of centerline, 280' AGL/345' MSL. Cross departure end of runway at or above 35' AGL/43' MSL. **Rwy 22**, tree 597' from departure end of runway, 357' left of centerline, 51' AGL/72' MSL.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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## NEWARK, NJ

## NEWARK LIBERTY INTL

TAKE-OFF MINIMUMS: **Rwy 29**, 500-1 or std. with a min. climb rate of 410' per NM to 500.

DEPARTURE PROCEDURE: **Rwys 4L, 4R, 11, 22L, 22R, 29**, use NEWARK DEPARTURE.

NOTE: **Rwy 4L**, cross departure end of runway at or above 35' AGL/46' MSL. **Rwy 4R**, cross departure end of runway at or above 35' AGL/45' MSL. **Rwy 11**, 38' AGL antenna 495' right of departure end of runway. 197' AGL crane on barge 3000' from departure end of runway, 1200' right of centerline. Cross departure end of runway at or above 35' AGL/46' MSL. **Rwy 22R**, cross departure at or above 10' AGL/22' MSL. **Rwy 29**, cross departure end of runway at or above 35' AGL/53' MSL.

## NEWBURGH, NY

## STEWART INTL

TAKE-OFF MINIMUMS: **Rwy 16**, 1100-1 or std. with a min. climb of 205' per NM to 1500. **Rwy 27**, 300-1 or std. with a min climb of 270' per NM to 700. **Rwy 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 1800 before turning southbound. **Rwy 16**, climb runway heading to 1500 before turning. **Rwy 27**, climb runway heading to 1000 before turning southbound.

## NIAGARA FALLS, NY

## NIAGARA FALLS INTL

TAKE-OFF MINIMUMS: **Rwys 10L, 10R, 24**, 300-1 or std. with a min. climb of 300' per NM to 1700.

DEPARTURE PROCEDURE: **Rwys 10L, 10R, 24** climb runway heading to 1700 before proceeding on course.

## NORWICH, NY

## LT. WARREN EATON

TAKE-OFF MINIMUMS: **Rwys 1, 19**, 700-2 or std. with a min. climb of 400' per NM to 1900.

DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway heading to 2500 before proceeding on course.

## OGDENSBURG, NY

## OGDENSBURG INTL

DEPARTURE PROCEDURE: **Rwys 9, 27**, climb runway heading to 700 before proceeding on course.

## OLD BRIDGE, NJ

## OLD BRIDGE

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 300-1.

## OLEAN, NY

## CATARAUGUS COUNTY-OLEAN

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 340' per NM until passing 2500. **Rwy 34**, 300-1 or std. with a min. climb of 300' per NM until passing 2500.

## ONEONTA, NY

## ONEONTA MUNI

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 300-1.

## PEDRICKTOWN, NJ

## SPITFIRE AERODROME

TAKE-OFF MINIMUMS: **Rwy 25**, NA-obstacles.

## PENN YAN, NY

## PENN YAN

TAKE-OFF MINIMUMS: **Rwy 1**, 500-2 or std. with a min climb of 230' per NM to 1700. **Rwy 19**, 600-2 or std. with a min. climb of 230' per NM to 1700. **Rwy 28**, 600-2, or std. with a min climb of 320' per NM to 1700.

NOTE: **Rwy 10**, 40' AGL trees at departure end of runway, 96' right of centerline.

## PITTSBURGH, NJ

## ALEXANDRIA

TAKE-OFF MINIMUMS: **Rwy 8**, 400-1 or std. with 400' per NM to 900. **Rwy 13**, 300-1 or std. with 460' per NM to 700. **Rwy 31**, 600-1 or std. with 340' per NM to 1200.

## SKY MANOR

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1.

## PLATTSBURGH, NY

## CLINTON COUNTY

TAKE-OFF MINIMUMS: **Rwys 14, 19**, 300-1. **Rwy 32**, 500-1 or std. with a min. climb of 250' per NM to 900. **Rwy 1**, 300-1 or std. with a min. climb of 290' per NM to 500.

DEPARTURE PROCEDURE: **Rwy 1**, climb to 2000 before proceeding westbound. **Rwys 14, 19**, climb to 2500 on heading 170° before proceeding westbound. **Rwy 32**, climbing left turn to 3000 heading 160° or climbing right turn to 2500 heading 030° before proceeding north or westbound.

## POUGHKEEPSIE, NY

## DUTCHESS COUNTY

TAKE-OFF MINIMUMS: **Rwy 6**, 500-1.

**Rwys 15, 33**, 400-1.

DEPARTURE PROCEDURE: **Rwy 6**, climb direct IGN VOR/DME, then via IGN R-070 to 2000 before proceeding on course. **Rwy 15**, climb to 600 then climbing left turn to 1000 direct IGN VOR/DME before proceeding on course. **Rwy 24**, climb to 2000 via IGN R-250 before proceeding on course. **Rwy 33**, climb to 600 then climbing right turn to 1000 direct IGN VOR/DME before proceeding on course.

## PRINCETON (ROCKY HILL), NJ

## PRINCETON

TAKE-OFF MINIMUMS: **Rwy 10**, 400-1 or std. with a min. of 270' per NM to 500.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## READINGTON, NJ

### SOLBERG-HUNTERDON

TAKE-OFF MINIMUMS: **Rwys 10, 28, NA.**

**Rwy 31**, 800-3 or std. with a min. climb of 290' per NM to 1100.

## REDHOOK, NY

### SKY PARK

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1. **Rwy 19**, 400-2 or std. with a min. climb of 240' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway heading to 3000 before proceeding on course.

## ROBBINSVILLE, NJ

### TRENTON-ROBBINSVILLE

TAKE-OFF MINIMUMS: **Rwy 29**, 300-1 or std. with a min. climb of 280' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 29**, climb runway heading to 800 before turning right.

## ROCHESTER, NY

### GREATER ROCHESTER INTL

TAKE-OFF MINIMUMS: **Rwy 22**, 500-1 or std. with a min climb of 220' per NM to 1100.

**Rwys 25, 28**, 300-1.

DEPARTURE PROCEDURE: **Rwy 4**, climb runway heading to 1200 before turning.

## SARANAC LAKE, NY

### ADIRONDACK REGIONAL

TAKE-OFF MINIMUMS: **Rwy 5**, 800-1 or std. with a min. climb of 230' per NM to 2500. **Rwy 9**, 600-2.

**Rwy 23**, 600-1 or std. with a min. climb of 240' per NM to 2300.

DEPARTURE PROCEDURE: **Rwys 5, 9**, climb to 2500 via SLK R-080, then climbing left turn direct SLK VOR so as to cross SLK VOR at 3000 or above before proceeding on course. **Rwy 23**, climbing right turn to 4000 via heading 250° before proceeding on course.

**Rwy 27**, climb runway heading to 2300 before proceeding on course.

## SARATOGA SPRINGS, NY

### SARATOGA COUNTY

TAKE-OFF MINIMUMS: **Rwy 32**, 400-2, or std. with a min. climb of 250' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 5, 14, 23**, climb runway heading to 1000 before proceeding on course. **Rwy 32**, left climbing turn to 1000 on 230° heading before proceeding on course.

## SCHENECTADY, NY

### SCHENECTADY COUNTY

TAKE-OFF MINIMUMS: **Rwy 4**, 300-1 or std. with a min. climb of 220' per NM to 600. **Rwy 28**, 1200-2 or std. with a min. climb of 240' per NM to 2000.

NOTE: **Rwy 4**, 459' trees 80' from departure end of runway, 470' left of centerline.

## SIDNEY, NY

### SIDNEY MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, 900-1 or std. with a min. climb of 275' per NM to 2000. **Rwy 25**, 700-1 or std. with a min. climb of 465' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 7**, climb runway heading to 2500 before turning. **Rwy 25**, climb runway heading to 2000 before turning.

## SKANEATELES, NY

### SKANEATELES AERO DROME

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.

## SOMERVILLE, NJ

### SOMERSET

TAKE-OFF MINIMUMS: **Rwy 12**, 800-3 or std. with a min. climb of 210' per NM to 1100'.

**Rwys 8, 17, 26, 35, NA.**

## STORMVILLE, NY

### STORMVILLE

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1.

**Rwy 6**, 1200-1.

DEPARTURE PROCEDURE: **Rwy 6**, climbing left turn direct IGN VOR/DME, cross IGN VOR/DME at or above 2000. **Rwy 24**, climbing right turn direct IGN VOR/DME, cross IGN VOR/DME at or above 2000.

## SUSSEX, NJ

### SUSSEX

TAKE-OFF MINIMUMS: **Rwy 3**, 700-1. **Rwy 21**, 500-1.

DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 1200, then climbing right turn to 3000 direct SAX VORTAC, then climb on course. **Rwy 21**, climb runway heading to 1500, then climb on course.

## SYRACUSE, NY

### SYRACUSE HANCOCK INTL

DEPARTURE PROCEDURE: **Rwy 10**, climb runway heading to 1500 before turning southbound.

**Rwy 15**, climb runway heading to 2800 before turning southbound. **Rwy 28**, climb runway heading to 1100 before turning southbound. **Rwy 33**, climb runway heading to 1000 before turning southbound.

## TETERBORO, NJ

### TETERBORO

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 250' per NM to 300. **Rwy 6**, 300-2 or std. with a min. climb of 230' per NM to 400. **Rwy 19**, 700-2 or std. with a min. climb 340' per NM to 700.

DEPARTURE PROCEDURE: **Rwys 1, 6, 19, 24**, use TETERBORO DEPARTURE.

NOTE: **Rwy 1**, cross departure end of runway at or above 35' AGL/42' MSL. **Rwy 6**, cross departure end of runway at or above 35' AGL/43' MSL. **Rwy 19**, 36' AGL tree 215' from departure end of runway, 120' left of centerline. Cross departure end of runway at or above 35' AGL/44' MSL. **Rwy 24**, cross departure end of runway at or above 35' AGL/41' MSL.





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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



## TICONDEROGA, NY

### TICONDEROGA MUNI

TAKE-OFF MINIMUMS: **Rwy 20**, 800-2 or std. with a min. climb of 330' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 2**, climb runway heading to 3800 before proceeding on course.

**Rwy 20**, climbing left turn to 2400 via heading 165° before proceeding on course.

## TRENTON, NJ

### TRENTON MERCER

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1.

DEPARTURE PROCEDURE: **Rwy 6**, climb runway heading to 750 before turning east. **Rwy 24**, climb runway heading to 400 before turning.

## VINCENTOWN, NJ

### RED LION

TAKE-OFF MINIMUMS: **Rwy 23**, 300-1.

## VINELAND, NJ

### KROELINGER

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.

### RUDY'S

TAKE-OFF MINIMUMS: **Rwy 8**, 600-1 or std. with a min. climb of 250' per NM to 900.

NOTE: **Rwy 8**, tower 6,702' from departure end of runway, 8,965' left of centerline, 499' AGL/605' MSL. **Rwy 26**, tree 2,488' from departure end of runway, 518' right of centerline, 60' AGL/148' MSL.

## WEEDSPORT, NY

### WHITFORDS

TAKE-OFF MINIMUMS: **Rwys 1, 10, 19, 28**, 300-1.

## WELLSVILLE, NY

### WELLSVILLE MUNI AIRPORT,

### TARANTINE FIELD

DEPARTURE PROCEDURE: **Rwys 10, 28**, climb runway heading to 2500 before proceeding on course.

## WEST MILFORD, NJ

### GREENWOOD LAKE

TAKE-OFF MINIMUMS: **Rwy 24**, 400-2 or std. with a min. climb of 280' per NM to 1300.

DEPARTURE PROCEDURE: **Rwys 6, 24**, climb runway heading to 1400 before proceeding on course.

## WESTHAMPTON BEACH, NY

### FRANCIS S. GABRESKI

TAKE-OFF MINIMUMS: **Rwy 6**, 300-1 or std. with a min. climb of 220' per NM to 300.

## WHEELER-SACK AAF, (KGBT)

### FORT DRUM, NY

**Rwy 26**, 300-1\*

\* Or standard with minimum climb of 240' NM to 800.

**Rwy 3, 33**, climb rwy heading to 1100, then climbing left turn via ART VORTAC R-058 to ART VORTAC. Cross ART VORTAC at or above 2700. **Rwy 8, 15, 21**, climb rwy heading to 1100, then climbing right turn via ART VORTAC R-095 to ART VORTAC. Cross ART VORTAC at or above 2700. **Rwy 26**, climb via heading 278° to intercept ART VORTAC R-058 to ART VORTAC. Cross ART VORTAC at or above 2700.

TAKE-OFF OBSTACLES: **Rwy 26**, 720' tree line 315' from departure end of rwy, 320' right of centerline.

## WHITE PLAINS, NY

### WESTCHESTER COUNTY

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1 or std. with a min. climb of 420' per NM to 600 MSL. **Rwy 16**, 300-1 or std. with a min. climb of 220' per NM to 600 MSL.

**Rwy 29**, 300-1 or std. with a min. climb of 350' per NM to 700 MSL.

## WILDWOOD, NJ

### CAPE MAY COUNTY

TAKE-OFF MINIMUMS: **Rwy 10**, 400-2. **Rwy 14**, 700-3 or std. with a min. climb of 200' per NM to 800.

## WOODBINE, NJ

### WOODBINE MUNI

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 260' per NM to 300. **Rwy 12**, 300-1. **Rwy 30**, 400-1 or std. with a min. climb of 260' per NM to 300.

## WURTSBORO, NY

### WURTSBORO-SULLIVAN COUNTY

TAKE-OFF MINIMUMS: **Rwys 5, 9, 14, 18, 27, 32, 36**, NA-obstacles. **Rwy 23**, std. with a min. climb of 388' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 23**, climb via heading 228° to 2100 before proceeding on course.

NOTE: **Rwy 23**, numerous trees 6594' from departure end of runway, 2150' right of centerline, 100' AGL/793' MSL to 100' AGL/957' MSL.

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